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NEWS 7 Mar 22 TOXLIT no longer available  
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=> s (bone or calcium or (calcium phosphate)) and cement#

6 FILES SEARCHED...

L1 51901 (BONE OR CALCIUM OR (CALCIUM PHOSPHATE)) AND CEMENT#

=> s L1 and (TCP or (tricalcium phosphate))

L2 1139 L1 AND (TCP OR (TRICALCIUM PHOSPHATE))

=> s L2 and (PHA or hydroxyapatite or hydroxylapatite)

L3 659 L2 AND (PHA OR HYDROXYAPATITE OR HYDROXYLAPATITE)

=> s L3 and ((inorganix phosphate) or CaHPO4 or (apatite and carbonate))

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=> s L3 and ((inorganic phosphate) or CaHPO4 or (apatite and carbonate))

L4 160 L3 AND ((INORGANIC PHOSPHATE) OR CAHPO4 OR (APATITE AND CARBONATE))

=> s L4 and (particle size)

L5 78 L4 AND (PARTICLE SIZE)

=> s L5 and (compressive strength)

L6 37 L5 AND (COMPRESSIVE STRENGTH)

=> s L6 and (weight percent)

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L7 20 L6 AND (WEIGHT PERCENT?)

=> s 17 and (settling accelerator)

L8 0 L7 AND (SETTLING ACCELERATOR)

=> s 17 and ((drug delivery) or (biologically active) or bioactive or drug)

6 FILES SEARCHED...

L9 8 L7 AND ((DRUG DELIVERY) OR (BIOLOGICALLY ACTIVE) OR BIOACTIVE  
OR DRUG)

=> s 19 and (solution or suspension or paste)

3 FILES SEARCHED...

L10 8 L9 AND (SOLUTION OR SUSPENSION OR PASTE)

=> s L10 and (antibiotic or disinfectant or (growth factor) or (fibroblast  
growth factor) or (TGF Beta) or BMP or OP or FGF)

6 FILES SEARCHED...

L11 5 L10 AND (ANTIBIOTIC OR DISINFECTANT OR (GROWTH FACTOR) OR  
(FIBRO  
BLAST GROWTH FACTOR) OR (TGF BETA) OR BMP OR OP OR FGF)

=> d 111 1-5 ibib abs

L11 ANSWER 1 OF 5 USPATFULL

ACCESSION NUMBER: 1998:85370 USPATFULL

TITLE: **Calcium phosphate cements**  
comprising amorphous calcium  
**phosphate**

INVENTOR(S): Constantz, Brent R., Portola Valley, CA, United States  
Barr, Bryan M., San Jose, CA, United States

PATENT ASSIGNEE(S): Norian Corporation, Cupertino, CA, United States (U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5782971		19980721
APPLICATION INFO.:	US 1997-821021		19970319 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1992-963481, filed on 16 Oct 1992 which is a continuation-in-part of Ser. No. US 1991-722880, filed on 28 Jun 1991, now		

abandoned

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Marcheschi, Michael

LEGAL REPRESENTATIVE: Bozicevic & Reed LLP, Field, Bret E.

NUMBER OF CLAIMS: 21

EXEMPLARY CLAIM: 1

LINE COUNT: 590

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Calcium phosphate cements** are provided.

The subject **cements** comprise amorphous calcium  
**phosphate**, at least one additional calcium source,  
usually an additional **calcium phosphate**, and a  
liquid component, such as a physiologically acceptable lubricant. Upon  
combination of the **cement** components, a flowable composition

capable of setting in vivo into a solid **calcium phosphate** mineral product, such as **hydroxyapatite**. This produced. The subject **cement** compositions find use in a variety of applications, including the treatment of injured or compromised hard tissue.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 2 OF 5 USPATFULL

ACCESSION NUMBER: 92:57273 USPATFULL  
TITLE: Methods for in situ prepared **calcium phosphate** minerals  
INVENTOR(S): Constantz, Brent R., Woodside, CA, United States  
PATENT ASSIGNEE(S): Norian Corporation, Mountain View, CA, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5129905		19920714
APPLICATION INFO.:	US 1989-393579		19890814 (7)
DISCLAIMER DATE:	20061114		
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1989-358716, filed on 30 May 1989, now patented, Pat. No. US 5047031 which		
	is a continuation-in-part of Ser. No. US 1988-183770, filed on 20 Apr 1988, now patented, Pat. No. US		

4880610

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Lewis, Michael  
ASSISTANT EXAMINER: DiMauro, Peter T.  
LEGAL REPRESENTATIVE: Rowland, Bertram I.  
NUMBER OF CLAIMS: 16  
EXEMPLARY CLAIM: 1  
LINE COUNT: 705

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Calcium phosphate** minerals are formed by using phosphoric acid source substantially free of uncombined water in conjunction with a **calcium** source, normally as any combination of **carbonate**, phosphate and hydroxide, and, as required, any additional base to neutralize the phosphoric acid. Protein may be optionally added. The resulting product is readily formed and then sets to a hard, stable, workable shaped object.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 3 OF 5 USPATFULL

ACCESSION NUMBER: 91:72991 USPATFULL  
TITLE: In situ **calcium phosphate** minerals method  
INVENTOR(S): Constantz, Brent R., Woodside, CA, United States  
PATENT ASSIGNEE(S): Norian Corporation, Mountain View, CA, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5047031		19910910
APPLICATION INFO.:	US 1989-358716		19890530 (7)
DISCLAIMER DATE:	20061114		
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1988-183770, filed on 20 Apr 1988, now patented, Pat. No. US 4880610		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Lewis, Michael L.		
ASSISTANT EXAMINER:	DiMauro, Peter T.		

LEGAL REPRESENTATIVE: Rowland, Bertram I.

NUMBER OF CLAIMS: 14

EXEMPLARY CLAIM: 1

LINE COUNT: 648

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Calcium phosphate minerals are formed by using phosphoric acid substantially free of uncombined water in conjunction with a calcium source, normally as any combination of carbonate, phosphate and hydroxide, and, as required, any additional base to neutralize the phosphoric acid. Protein may be optionally added. The resulting product is readily formed and then sets to a hard, stable, workable shaped object.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 4 OF 5 EUROPATFULL COPYRIGHT 2002 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 416761 EUROPATFULL EW 199111 FS OS STA B

TITLE: Formulations for in situ prepared calcium phosphate minerals.

Zusammensetzungen fuer in situ hergestellte Kalziumphosphatmineralien.

Compositions pour des mineraux de phosphate de calcium prepares in situ.

INVENTOR(S): Constantz, Brent R., 195 Northridge Drive, Ls. Gatos, California 95066, US

PATENT ASSIGNEE(S): NORIAN CORPORATION, 1025 Terra Bella Avenue, Mountain View California 94043, US

PATENT ASSIGNEE NO: 1084380

AGENT: Harrison, David Christopher et al, MEWBURN ELLIS 2 Cursitor Street, London EC4A 1BQ, GB

AGENT NUMBER: 31532

OTHER SOURCE: ESP1991018 EP 0416761 A1 910313

SOURCE: Wila-EPZ-1991-H11-T1

DOCUMENT TYPE: Patent

LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch

DESIGNATED STATES: R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R LI; R LU; R NL; R SE

PATENT INFO.PUB.TYPE: EPA1 EUROPÆISCHE PATENTANMELDUNG

PATENT INFORMATION:

	PATENT NO	KIND DATE
'OFFENLEGUNGS' DATE:	EP 416761	A1 19910313
APPLICATION INFO.:		19910313
PRIORITY APPLN. INFO.:	EP 1990-308890	19900813
	US 1989-393579	19890814

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 416761 EUROPATFULL EW 199252 FS PS STA B

TITLE: Formulations for in situ prepared calcium phosphate minerals.

Zusammensetzungen fuer in situ hergestellte Kalziumphosphatmineralien.

Compositions pour des mineraux de phosphate de calcium prepares in situ.

INVENTOR(S): Constantz, Brent R., 195 Northridge Drive, Ls. Gatos, California 95066, US

PATENT ASSIGNEE(S): NORIAN CORPORATION, 1025 Terra Bella Avenue, Mountain View California 94043, US

PATENT ASSIGNEE NO: 1084380

AGENT: Harrison, David Christopher et al, MEWBURN ELLIS 2 Cursitor Street, London EC4A 1BQ, GB

AGENT NUMBER: 31532  
OTHER SOURCE: EPB1992061 EP 0416761 B1 92122  
SOURCE: Wila-EPS-1992-H52-T1  
DOCUMENT TYPE: Patent  
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch  
DESIGNATED STATES: R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R IT; R LI; R LU; R NL; R SE  
PATENT INFO. PUB. TYPE: EPB1 EUROPÄISCHE PATENTSCHRIFT  
PATENT INFORMATION:

	PATENT NO	KIND DATE
'OFFENLEGUNGS' DATE:	EP 416761	B1 19921223 19910313
APPLICATION INFO.:	EP 1990-308890	19900813
PRIORITY APPLN. INFO.:	US 1989-393579	19890814
REFERENCE PAT. INFO.:	EP 26090 A FR 2096886 A GB 1487181 A	AU 518908 B FR 2537558 A

L11 ANSWER 5 OF 5 EUROPATFULL COPYRIGHT 2002 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 347028 EUROPATFULL EW 198951 FS OS STA B  
TITLE: **Calcium phosphate** mineral  
compositions and methods for preparing same.  
Kalziumphosphatmineralzusammensetzungen sowie Verfahren  
zu deren Herstellung.  
Compositions de mineraux de phosphate de **calcium**  
et leurs procedes de preparation.  
Constantz, Brent R., 14826 Skyline Boulevard, Woodside  
California 94062, US  
PATENT ASSIGNEE(S): NORIAN CORPORATION, 1025 Terra Bella Avenue, Mountain  
View California 94043, US  
PATENT ASSIGNEE NO: 1084380  
AGENT: Harrison, David Christopher et al, MEWBURN ELLIS & CO  
2/3 Cursitor Street, London EC4A 1BQ, GB  
31531  
AGENT NUMBER:  
OTHER SOURCE: ESP1989054 EP 0347028 A2 891220  
SOURCE: Wila-EPZ-1989-H51-T1  
DOCUMENT TYPE: Patent  
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch  
DESIGNATED STATES: R AT; R BE; R CH; R DE; R ES; R FR; R GB; R GR; R IT; R LI; R LU; R NL; R SE  
PATENT INFO. PUB. TYPE: EPA2 EUROPÄISCHE PATENTANMELDUNG  
PATENT INFORMATION:

	PATENT NO	KIND DATE
'OFFENLEGUNGS' DATE:	EP 347028	A2 19891220 19891220
APPLICATION INFO.:	EP 1989-303806	19890418
PRIORITY APPLN. INFO.:	US 1988-183770	19880420

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 347028 EUROPATFULL EW 199838 FS PS  
TITLE: **Calcium phosphate** mineral  
compositions and methods for preparing same.  
Kalziumphosphatmineralzusammensetzungen sowie Verfahren  
zu deren Herstellung.  
Compositions de mineraux de phosphate de **calcium**  
et leurs procedes de preparation.  
Constantz, Brent R., 14826 Skyline Boulevard, Woodside  
California 94062, US  
PATENT ASSIGNEE(S): NORIAN CORPORATION, 1025 Terra Bella Avenue, Mountain

View California 94043, US

PATENT ASSIGNEE NO: 1084380  
AGENT: Harrison, David Christopher et al, MEWBURN ELLIS York  
House 23 Kingsway, London WC2B 6HP, GB  
AGENT NUMBER: 31532  
OTHER SOURCE: EPB1998051 EP 0347028 B1 980916  
SOURCE: Wila-EPS-1998-H38-T1  
DOCUMENT TYPE: Patent  
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch  
DESIGNATED STATES: R DE; R FR; R GB  
PATENT INFO.PUB.TYPE: EPB1 EUROPÆISCHE PATENTSCHRIFT  
PATENT INFORMATION:

	PATENT NO	KIND DATE
'OFFENLEGUNGS' DATE:	EP 347028	B1 19980916
APPLICATION INFO.:	EP 1989-303806	19891220
PRIORITY APPLN. INFO.:	US 1988-183770	19890418
REFERENCE PAT. INFO.:	US 3379541 A	19880420
		US 3647371 A

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